	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
	PCC(M15)	Compressive Strength(7days and 28days)	5 set /50-100 cum	59.95	10	10
0	RCC(M20)	Compressive Strength(7days and 28days)	9 set /250-300 cum	274.32	18	18
1	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
2	Paver Block	Compressive Strength	One Test		1	1
		Water Absorption	One Test		1	1
13	Chain Link Fencing	Average Thickness	One Test		1	1
		Dia of line wire	One Test		1	1
		Mesh size	One Test		1	1
		Nominal dia of mesh wire	One Test		1	1
		Bend Test	One Test		1	1
14	NP3 Pipe	Dimension Analysis	One Test		1	1
		Compressive Strength	One Test		1	1
15	Structural Steel (Horizontal member) NB-32 ,OD-42.4, 4mm thick	Weight/Meter	One Test		1	1
		Thickness	One Test		1	1
		Outer Diameter	One Test		1	1
		Yeild Stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
		Bend Test	One Test		1	1
16	Structural Steel (SHS 145x 82 x5.4th)	Weight/Meter	One Test		1	1
		Thickness	One Test		1	1
		Yeild Stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
		Bend Test	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-09-08-10** **Date: 04-07-2022**
Project Name	:	Construction of Lead of Drain at 16th A Cross in Ward No.04 of Yelahanka Satellite Town Sub Division.
Agency	:	Sri. Gopi Reddy, No.13, Ground Floor, Sai Bab Temple Road, Opp Coffee Board Layout, Mariyanna Palya, Bangalore-560024
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/16/2022-23
Date of Receipt	:	01-07-2022
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11) 1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING. Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste. Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time. Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	02-07-2022
Environmental Conditions during test	:	Temperature: 26°C Humidity 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.55	–
2	Finess by Air permeablity method (m^2/kg,Min)	287.5	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-09-08-10** **Date: 30-07-2022**
Project Name	:	Construction of Lead of Drain at 16th A Cross in Ward No.04 of Yelahanka Satellite Town Sub Division.
Agency	:	Sri. Gopi Reddy, No.13, Ground Floor, Sai Bab Temple Road, Opp Coffee Board Layout, Mariyanna Palya, Bangalore-560024
Customer's Reference	:	BBMP/EE/YNK D/EPMT-4/W.O/16/2022-23
Date of Receipt	:	01-07-2022
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	02-07-2022
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	56.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-09-08-10** **Date: 04-07-2022**
Project Name	:	Construction of Lead of Drain at 16th A Cross in Ward No.04 of Yelahanka Satellite Town Sub Division.
Agency	:	Sri. Gopi Reddy, No.13, Ground Floor, Sai Bab Temple Road, Opp Coffee Board Layout, Mariyanna Palya, Bangalore-560024
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/16/2022-23
Date of Receipt	:	01-07-2022
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-07-2022

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	318	318	2.1	97.9	90-100
3	20 mm	7441	7759	51.7	48.3	30-70
4	10 mm	5152	12911	86.1	13.9	10-35
5	4.75 mm	1711	14622	97.5	2.5	0-5
6	Pan	378	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-09-08-10** **Date: 04-07-2022**
Project Name	:	Construction of Lead of Drain at 16th A Cross in Ward No.04 of Yelahanka Satellite Town Sub Division.
Agency	:	Sri. Gopi Reddy, No.13, Ground Floor, Sai Bab Temple Road, Opp Coffee Board Layout, Mariyanna Palya, Bangalore-560024
Customer Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/16/2022-23
Date of Receipt	:	01-07-2022
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-07-2022

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	255	255	5.1	94.9	90-100
3	10 mm	2789	3044	60.9	39.1	25-55
4	4.75 mm	1545	4589	91.8	8.2	0-10
5	Pan	411	5000	100	0	–

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-09-08-10 **Date: 04-07-2022**

Project Name : Construction of Lead of Drain at 16th A Cross in Ward No 04 of Yelahanka Satellite Town Sub Division.

Agency : Sri. Gopi Reddy, No.13, Ground Floor, Sai Bab Temple Road, Opp Coffee Board Layout, Mariyanna Palya, Bangalore-560024

Customer's Reference : BBMP/EE/YNK.D/EPMT-4/W.O/16/2022-23

Date of Receipt : 01-07-2022

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS. 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 01-07-2022

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	85	85	8.5	91.5	90-100	90-100	90-100	95-100
3	2.36 mm	145	230	23.0	77.0	60-95	75-100	85-100	95-100
4	1.18 mm	165	395	39.5	60.5	30-70	55-90	75-100	90-100
5	600 micron	187	582	58.2	41.8	15-34	35-59	60-79	80-100
6	300 micron	175	757	75.7	24.3	5-20	8-30	12-40	15-50
7	150 micron	155	912	91.2	8.8	0-10	0-10	0-10	0-15
8	Pan	88	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST RESULTS OF STEEL

ab ID	:	CP-2022-09-08-10 **Date: 04-07-2022**
roject Name	:	Construction of Lead of Drain at 16th A Cross in Ward No.04 of Yelahanka Satellite Town Sub Division.
gency	:	Sri. Gopi Reddy, No.13, Ground Floor, Sai Bab Temple Road, Opp Coffee Board Layout, Mariyanna Palya, Bangalore-560024
ustomer's Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/16/2022-23
ate of Receipt	:	01-07-2022
ample Type	:	INDUS
eference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
ate of test:	:	02-07-2022

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	INDUS	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
2	INDUS	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID : CP-2022-09-08-10 Date: 08-07-2022

Project Name : Construction of Lead of Drain at 16th A Cross in Ward No.04 of Yelahanka Satellite Town Sub Division.

Agency : Sri. Gopi Reddy, No.13, Ground Floor, Sai Bab Temple Road, Opp Coffee Board Layout, Mariyanna Palya, Bangalore-560024

Customer's Reference : BBMP/EE/YNK D/EPMT-4/W.O/16/2022-23

Date of Receipt : 04-07-2022

Sample Type /Size : CC Kerb Stone/ 450*165*400mm

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 04/07/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	185.5	23.6	23.6	29.5
2	B	100.03	165.49	2.793	7857	173.1	22.0	22.0	27.5
3	C	100.01	165.50	2.815	7854	177.3	22.6	22.6	28.2

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-09-08-10** **Date: 06/08/2022**

Project Name : Construction of Lead of Drain at 16th A Cross in Ward No.04 of Yelahanka Satellite Town Sub Division

Agency : Sri. Gopi Reddy, No.13, Ground Floor, Sai Bab Temple Road, Opp Coffee Board Layout, Mariyanna Palya, Bangalore-560024

Customer's Reference : BBMP/EE/YNK.D/EPMT-4/W.O/16/2022-23

Date of Receipt : 11-07-2022

Customer ID : Drain Bottom Raft- 16th A Cross Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/08/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Bottom Raft-16th A Cross Road	M20	09/07/2022	06/08/2022	149.30 X 149.39 X 149.44	22303	8.882	531.1	23.8	23.0
2	Drain Bottom Raft-16th A Cross Road	M20	09/07/2022	06/08/2022	151.19 X 149.28 X 149.21	22570	8.712	501.8	22.2	
3	Drain Bottom Raft-16th A Cross Road	M20	09/07/2022	06/08/2022	151.48 X 151.44 X 150.60	22940	8.263	528.9	23.1	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-09-08-10

Date: 20/07/2022

Project Name : Construction of Lead of Drain at 16th A Cross in Ward No.04 of Yelahanka Satellite Town Sub Division.

Agency : Sri. Gopi Reddy, No.13, Ground Floor, Sai Bab Temple Road, Opp Coffee Board Layout, Mariyanna Palya, Bangalore-560024

Customer's Reference : BBMP/EE/YNK.D/EPMT-4/W O/16/2022-23

Date of Receipt : 15-07-2022

Customer ID : Drain Side Wall - 16th A Cross Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5

Date of test : 20/07/2022

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall - 16th A Cross Road	M20	13/07/2022	20/07/2022	151.26 X 150.70 X 149.12	22796	8.221	432.6	19.0	18.7
2	Drain Side Wall - 16th A Cross Road	M20	13/07/2022	20/07/2022	150.46 X 149.14 X 149.97	22440	8.789	411.2	18.3	
3	Drain Side Wall - 16th A Cross Road	M20	13/07/2022	20/07/2022	151.67 X 150.62 X 150.64	22844	8.534	431.8	18.9	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-09-08-10

Date: 20/07/2022

Project Name : Construction of Lead of Drain at 16th A Cross in Ward No.04 of Yelahanka Satellite Town Sub Division.

Agency : Sri. Gopi Reddy, No.13, Ground Floor, Sai Bab Temple Road, Opp Coffee Board Layout, Mariyanna Palya, Bangalore-560024

Customer's Reference : BBMP/EE/YNK.D/EPMT-4/W.O/16/2022-23

Date of Receipt : 15-07-2022

Customer ID : Drain Side Wall - 16th A Cross Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5

Date of test : 20/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Side Wall - 16th A Cross Road	M20	13/07/2022	20/07/2022	150.62 X 151.22 X 149.19	22777	8.364	417.1	18.3	18.6
2	Drain Side Wall - 16th A Cross Road	M20	13/07/2022	20/07/2022	151.15 X 149.08 X 149.07	22533	8.568	416.0	18.5	
3	Drain Side Wall - 16th A Cross Road	M20	13/07/2022	20/07/2022	150.09 X 150.94 X 150.47	22655	8.567	428.3	18.9	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/07/2022

Lab ID	:	CP-2022-09-08-10
Project Name	:	Construction of Lead of Drain at 16th A Cross in Ward No.04 of Yelahanka Satellite Town Sub Division.
Agency	:	Sri. Gopi Reddy, No.13, Ground Floor, Sai Bab Temple Road, Opp Coffee Board Layout, Mariyanna Palya, Bangalore-560024
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/16/2022-23
Date of Receipt	:	12-07-2022
Customer ID	:	Culvert Bottom Raft - 12th A Main Road
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	17/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Culvert Bottom Raft - 12th A Main Road	M20	10/07/2022	17/07/2022	151.14 X 149.98 X 151.10	22667	8.495	427.9	18.9	18.4
2	Culvert Bottom Raft - 12th A Main Road	M20	10/07/2022	17/07/2022	149.22 X 149.68 X 150.27	22335	8.578	410.9	18.4	
3	Culvert Bottom Raft - 12th A Main Road	M20	10/07/2022	17/07/2022	151.94 X 149.93 X 151.30	22780	8.454	411.6	18.1	

* The results obtained are satisfactory as per standard requirements.

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಬಾಗ,
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-09-08-10

Project Name : Construction of Lead of Drain at 16th A Cross in Ward No.04 of Yelahanka Satellite Town Sub Division.

Date: 20/07/2022

Agency : Sri. Gopi Reddy, No.13, Ground Floor, Sai Bab Temple Road, Opp Coffee Board Layout, Mariyanna Palya, Bangalore-560024

Customer's Reference : BBMP/EE/YNK.D/EPMT-4/W.O/16/2022-23

Date of Receipt : 15-07-2022

Customer ID : Culvert Side Wall - 12th A Main Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall - 12th A Main Road	M20	13/07/2022	20/07/2022	151.78 X 151.00 X 150.11	22918	8.589	419.4	18.3	18.4
2	Culvert Side Wall - 12th A Main Road	M20	13/07/2022	20/07/2022	150.56 X 150.39 X 151.18	22643	8.128	414.5	18.3	
3	Culvert Side Wall - 12th A Main Road	M20	13/07/2022	20/07/2022	151.28 X 149.18 X 151.54	22569	8.173	422.1	18.7	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2022-09-08-10
ject Name	:	Construction of Lead of Drain at 16th A Cross in Ward No.04 of Yelahanka Satellite Town Sub Division.
ncy	:	Sri. Gopi Reddy, No.13, Ground Floor, Sai Bab Temple Road, Opp Coffee Board Layout. Mariyanna Palya, Bangalore-560024
tomer's Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/16/2022-23
te of Receipt	:	13-07-2022
stomer ID	:	Silt Collecting Chamber
nple Type /Size	:	150X150X150 mm
nple grade/Age	:	M20 / 7 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
te of test	:	18/07/2022

Date: 18/07/2022

L o.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Silt Collecting Chamber	M20	11/07/2022	18/07/2022	149.91 X 149.05 X 151.05	22343	8.583	421.9	18.9	18.5
2	Silt Collecting Chamber	M20	11/07/2022	18/07/2022	150.22 X 151.27 X 150.55	22724	8.859	415.8	18.3	
3	Silt Collecting Chamber	M20	11/07/2022	18/07/2022	149.04 X 150.29 X 151.80	22399	8.782	407.8	18.2	

The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/08/2022

b ID : CP-2022-09-08-10

oject Name : Construction of Lead of Drain at 16th A Cross in Ward No.04 of Yelahanka Satellite Town Sub Division.

gency : Sri. Gopi Reddy, No.13, Ground Floor, Sai Bab Temple Road, Opp Coffee Board Layout, Mariyanna Palya, Bangalore-560024

stomer's Reference : BBMP/EE/YNK.D/EPMT-4/W.O/16/2022-23

te of Receipt : 13-07-2022

stomer ID : Silt Collecting Chamber

mple Type /Size : 150X150X150 mm

mple grade/Age : M20 / 28 Days Compressive Strength

eference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5

ate of test : 08/08/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Silt Collecting Chamber	M20	11/07/2022	08/08/2022	150.41 X 151.59 X 149.54	22801	8.574	537.1	23.6	23.3
2	Silt Collecting Chamber	M20	11/07/2022	08/08/2022	150.29 X 151.94 X 150.90	22835	9.025	516.5	22.6	
3	Silt Collecting Chamber	M20	11/07/2022	08/08/2022	150.71 X 150.49 X 151.16	22680	8.243	536.2	23.6	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID	:	CP-2022-09-08-10 Date: 22-07-2022
Project Name	:	Construction of Lead of Drain at 16th A Cross in Ward No.04 of Yelahanka Satellite Town Sub Division.
Agency	:	Sri. Gopi Reddy, No.13, Ground Floor, Sai Bab Temple Road, Opp Coffee Board Layout, Mariyanna Palya, Bangalore-560024
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/16/2022-23
Date of Receipt	:	19-07-2022
Sample Type	:	Fine Aggregate, M Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	19-07-2022
Total weight taken	:	1000 grams

SLno	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	89	89	8.9	91.1	90-100
3	1.18 mm	165	254	25.4	74.6	70-100
4	600 micron	156	410	41.0	59.0	40-100
5	300 micron	125	535	53.5	46.5	5-70
6	150 micron	425	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

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CEMENT CONCRETE PRECAST CONCRETE BLOCKS FOR PAVING

ID	:	CP-2022-09-08-10
ect Name	:	Construction of Lead of Drain at 16th A Cross in Ward No.04 of Yelahanka Satellite Town Sub Division.
ncy	:	Sri. Gopi Reddy, No.13, Ground Floor, Sai Bab Temple Road, Opp Coffee Board Layout, Mariyanna Palya, Bangalore-560024
tomer Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/16/2022-23
e of Receipt	:	19-07-2022
nple Type/ Size	:	Precast concrete blocks for paving (Heavy Duty Cobble Stones)
erence to BIS codes	:	IS 15658:2021
te of test	:	19-07-2022

Date: 24-07-2022

Compressive Strength

No.	Dimension (mm)			Compressive Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	197.22	159.88	65.55	36.5	38.0
2	198.48	159.64	63.45	38.5	
3	199.54	159.54	62.66	39.6	
4	197.68	159.22	64.35	35.5	
5	198.11	159.87	66.45	38.5	
6	198.18	160.02	67.69	39.5	
7	198.45	158.99	66.21	37.6	
8	197.22	159.22	64.89	38.2	

. Water Absorption

Sl.No.	Wet Weight	Dry weight	Thickness	Water Absorption (%)	Average (%)
1	4.987	4.828	75.85	4.21	3.79
2	4.898	4.721	75.22	3.95	
3	4.988	4.802	75.44	3.22	

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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TEST RESULTS FOR CHAIN LINK FENCING

Lab ID : CP-2022-09-08-10 **Date: 06-07-2022**

Project Name : Construction of Lead of Drain at 16th A Cross in Ward No.04 of Yelahanka Satellite Town Sub Division.

Agency : Sri. Gopi Reddy, No.13, Ground Floor, Sai Bab Temple Road, Opp Coffee Board Layout, Mariyanna Palya, Bangalore-560024

Customer's Reference : BBMP/EE/YNK.D/EPMT-4/W.O/16/2022-23

Date of Receipt : 04-07-2022

Type of Sample : Chain Link Fencing

Reference to BIS codes : IS 2062:2011 (RA 2021)

Date of testing : 04-07-2022

TESTS RESULT FOR WIRE MESH		
SL.NO	**Description**	**Result**
1	**Average Thickness in mm**	4.04
2	**Dia of linewire in mm**	3.14
3	**Mesh size in mm**	50.01
4	**Nominaldia of meshwire in mm**	2.52
5	**Bend Test**	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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ಪಿ.ಡಬ್ಲ್ಯೂ.ಡಿ, ಬೆಂಗಳೂರು-106

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Quality Manager

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TEST REPORT ON NP3 RCC PIPES

Lab ID	:	**CP-2022-09-08-10** **Date: 01-08-2022**
Project Name	:	Construction of Lead of Drain at 16th A Cross in Ward No.04 of Yelahanka Satellite Town Sub Division.
Agency	:	Sri. Gopi Reddy, No.13, Ground Floor, Sai Bab Temple Road, Opp Coffee Board Layout, Mariyanna Palya, Bangalore-560024
Customer's Referenc	:	BBMP/EE/YNK.D/EPMT-4/W.O/16/2022-23
Date of Receipt	:	04-07-2022
Sample Type/Size	:	NP3 RCC Pipe
Reference to BIS codes	:	IS 458 :2021
Date of test	:	01-08-2022

DIMENSION ANALYSIS

Sl.no	Length mm	Diameter mm	Thickness mm	Requirement as per IS 458:2003
1	2498	301	31	Length : ± 25mm Diameter : ± 10mm Height : +6mm/-3mm
2	2510	300	32	
3	2498	301	32	
4	2500	302	30	
5	2500	310	29	
6	2498	300	30	
7	2497	301	31	
8	2500	300	30	
9	2500	304	30	
10	2500	300	30	

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2022-09-08-10
ct Name	:	Construction of Lead of Drain at 16th A Cross in Ward No.04 of Yelahanka Satellite Town Sub Division.
		Date: 22/07/2022
ncy	:	Sri. Gopi Reddy, No.13, Ground Floor, Sai Bab Temple Road, Opp Coffee Board Layout, Mariyanna Palya, Bangalore-560024
tomer's Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/16/2022-23
e of Receipt	:	18-07-2022
stomer ID	:	Kerb PCC
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M15 / 7 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
te of test	:	22/07/2022

iL o.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Kerb PCC	M15	15/07/2022	22/07/2022	149.73 X 151.28 X 151.99	22652	8.872	281.2	12.4	12.0
2	Kerb PCC	M15	15/07/2022	22/07/2022	149.04 X 150.09 X 150.45	22369	8.593	273.3	12.2	
3	Kerb PCC	M15	15/07/2022	22/07/2022	150.90 X 149.89 X 149.99	22619	8.692	255.8	11.3	

* The results obtained are satisfactory as per standard requirements.

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ಜಿ.ಬಿ.ಎ. ಬೆಂಗಳೂರು-106

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

D	:	CP-2022-09-08-10
ct Name	:	Construction of Lead of Drain at 16th A Cross in Ward No.04 of Yelahanka Satellite Town Sub Division.
ncy	:	Sri. Gopi Reddy, No.13, Ground Floor, Sai Bab Temple Road, Opp Coffee Board Layout, Mariyanna Palya, Bangalore-560024
tomer's Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/16/2022-23
e of Receipt	:	18-07-2022
tomer ID	:	Kerb PCC
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M15 / 7 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
te of test	:	22/07/2022

Date: 22/07/2022

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Kerb PCC	M15	15/07/2022	22/07/2022	149.52 X 149.06 X 149.29	22288	8.941	259.0	11.6	11.9
2	Kerb PCC	M15	15/07/2022	22/07/2022	149.41 X 150.83 X 150.27	22536	8.158	281.0	12.5	
3	Kerb PCC	M15	15/07/2022	22/07/2022	151.83 X 150.42 X 149.40	22838	8.906	263.1	11.5	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-09-08-10

Date: 22/07/2022

me : Construction of Lead of Drain at 16th A Cross in Ward No.04 of Yelahanka Satellite Town Sub Division.

: Sri. Gopi Reddy, No.13, Ground Floor, Sai Bab Temple Road, Opp Coffee Board Layout, Mariyanna Palya, Bangalore-560024

's Reference : BBMP/EE/YNK.D/EPMT-4/W.O/16/2022-23

Receipt : 18-07-2022

r ID : Kerb PCC

Type /Size : 150X150X150 mm

grade/Age : M15 / 7 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5

test : 22/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Kerb PCC	M15	15/07/2022	22/07/2022	150.64 X 149.71 X 150.27	22552	8.256	281.0	12.5	12.1
Kerb PCC	M15	15/07/2022	22/07/2022	151.70 X 151.47 X 149.78	22978	8.518	282.1	12.3	
Kerb PCC	M15	15/07/2022	22/07/2022	151.11 X 149.49 X 149.55	22589	8.168	258.7	11.5	

ne results obtained are satisfactory as per standard requirements.

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Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

D	:	CP-2022-09-08-10
t Name	:	Construction of Lead of Drain at 16th A Cross in Ward No.04 of Yelahanka Satellite Town Sub Division.
y	:	Sri. Gopi Reddy, No.13, Ground Floor, Sai Bab Temple Road, Opp Coffee Board Layout, Mariyanna Palya, Bangalore-560024
omer's Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/16/2022-23
of Receipt	:	18-07-2022
omer ID	:	Kerb PCC
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M15 / 7 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
te of test	:	22/07/2022

Date: 22/07/2022

L No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Kerb PCC	M15	15/07/2022	22/07/2022	151.80 X 151.42 X 149.83	22985	8.694	281.8	12.3	12.2
2	Kerb PCC	M15	15/07/2022	22/07/2022	150.12 X 150.39 X 151.40	22577	8.404	292.8	13.0	
3	Kerb PCC	M15	15/07/2022	22/07/2022	150.55 X 151.97 X 150.55	22879	8.653	259.5	11.3	

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-09-08-10 Date: 22/07/2022

Name : Construction of Lead of Drain at 16th A Cross in Ward No.04 of Yelahanka Satellite Town Sub Division.

: Sri. Gopi Reddy, No.13, Ground Floor, Sai Bab Temple Road, Opp Coffee Board Layout, Mariyanna Palya, Bangalore-560024

mer's Reference : BBMP/EE/YNK.D/EPMT-4/W.O/16/2022-23

of Receipt : 18-07-2022

mer ID : Kerb PCC

ple Type /Size : 150X150X150 mm

ple grade/Age : M15 / 7 Days Compressive Strength

erence to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5

te of test : 22/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Kerb PCC	M15	15/07/2022	22/07/2022	150.76 X 149.76 X 149.90	22578	8.486	272.0	12.0	12.2
2	Kerb PCC	M15	15/07/2022	22/07/2022	150.66 X 151.61 X 150.81	22842	8.968	283.6	12.4	
3	Kerb PCC	M15	15/07/2022	22/07/2022	149.50 X 150.69 X 151.98	22528	8.483	271.9	12.1	

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

TEST RESULTES ON STRUCTURAL STEEL

Lab ID : CP-2022-09-08-10 Date: 05-07-2022

Project Name : Construction of Lead of Drain at 16th A Cross in Ward No.04 of Yelahanka Satellite Town Sub Division.

Agency : Sri. Gopi Reddy, No.13, Ground Floor, Sai Bab Temple Road, Opp Coffee Board Layout, Mariyanna Palya, Bangalore-560024

Customer's Reference : BBMP/EE/YNK.D/EPMT-4/W.O/16/2022-23

Date of Receipt : 04-07-2022

Type/ Description of Sample* : Horizontal member-NB-32 ,OD-42.4, 4mm thick

Reference to BIS codes : IS 2062: 2011 (RA 2021), IS:1608-2005(RA 2017), IS 1599-2019.

Date of testing : 04-07-2022

SL.NO	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Weight/Meter	3.81 Kg /m	–	
2	Thickness	4.1 mm	–	
3	Outer Diameter	42.4 mm	–	
4	Yeild Stress	282 N/mm^2	240 N/mm^2	
5	Tensile Strength	492 N/mm^2	410 N/mm^2	
6	Elongation Percentage	18%	Min 15%	
7	Bend Test	Satisfactory	–	

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

TEST RESULTES ON STRUCTURAL STEEL

Lab ID : CP-2022-09-08-10 Date: 05-07-2022

Project Name : Construction of Lead of Drain at 16th A Cross in Ward No.04 of Yelahanka Satellite Town Sub Division.

Agency : Sri. Gopi Reddy, No.13, Ground Floor, Sai Bab Temple Road, Opp Coffee Board Layout, Mariyanna Palya, Bangalore-560024

Customer's Reference : BBMP/EE/YNK.D/EPMT-4/W.O/16/2022-23

Date of Receipt : 04-07-2022

Type/ Description of Sample* : SHS 72X72X4.8mm thick

Reference to BIS codes : IS 2062: 2011 (RA 2021), IS:1608-2005(RA 2017), IS 1599-2019.

Date of testing : 04-07-2022

SL.NO	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Weight/Meter	9.68 Kg /m	–	
2	Thickness	4.9 mm	–	
3	Yeild Stress	282 N/mm^2	240 N/mm^2	
4	Tensile Strength	493 N/mm^2	410 N/mm^2	
5	Elongation Percentage	18%	Min 15%	
6	Bend Test	Satisfactory	–	

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

****End of Report****

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